

In re Appl. No. 09/380,638

REMARKS

Applicants' attorney wishes to thank Examiner Crane for the courtesies extended during the interview of February 1, 2001. The present amendment is submitted in accordance with the Examiner's helpful suggestions made during that interview.

With respect to the chain length of the substituents, the specification provides a guide for one skilled in the art to the length of these chains. More particularly, at page 3, line 22 through page 5, line 23, these chain lengths are substituents are described in detail.

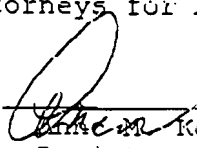
"Amidite derivative" are described on pages 13 and 43, and new claims 6-8 have been submitted which further define the amidite derivative as a phosphoramidite.

In view of the above, it is respectfully submitted that the claims are now in condition for allowance, and favorable action thereon is earnestly solicited.

Respectfully submitted,

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By

  
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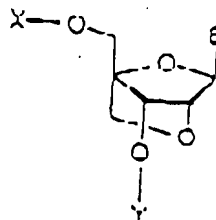
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"Version with markings to show changes"

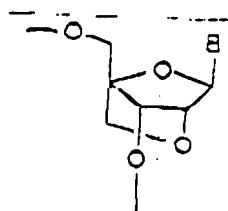
1. A nucleoside analogue of the following formula (I)



(I)

where B is a pyrimidine or purine nucleic acid base, or ~~an analogue thereof~~, and X and Y are identical or different, and each represents a hydrogen atom, an alkyl group, an alkenyl group, an alkynyl group, a cycloalkyl group, an aralkyl group, an aryl group, an acyl group, or a silyl group, or an amidite derivative thereof.

4. An oligonucleotide or polynucleotide analogue having one or more structures of the formula (Ia)



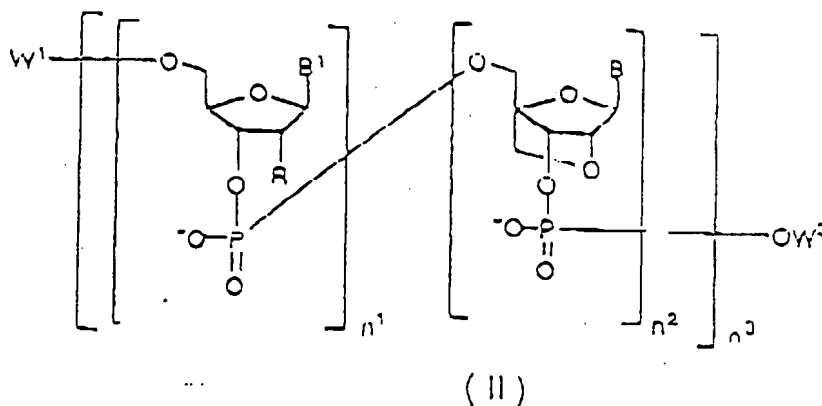
(Ia)

D

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where B is a pyrimidine or purine nucleic acid base, ~~or a~~  
~~an analogue thereof.~~

5. An oligonucleotide or polynucleotide analogue of the  
 formula (II)



where B¹ and B are identical or different, and each  
 represents a pyrimidine or purine nucleic acid base, ~~or an~~  
~~analogue thereof~~, R is a hydrogen atom, a hydroxyl group, a  
 halogen atom, or an alkoxy group,

W¹ and W² are identical or different, and each represents  
 a hydrogen atom, an alkyl group, an alkenyl group, an alkynyl  
 group, a cycloalkyl group, an aralkyl group, an aryl group, an  
 acyl group, a silyl group, a phosphoric acid residue, a

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naturally occurring nucleoside or a synthetic nucleoside bound via a phosphodiester bond, or an oligonucleotide or polynucleotide containing the nucleoside,  $n^1$  or  $n^2$  are identical or different, and each denotes an integer of 0 to 50, provided that  $n^1$  and  $n^2$  are not both zero, and that not all of the  $n^2$  are zero at the same time,  $n^3$  denotes an integer of 1 to 50, provided that when  $n^1$  and/or  $n^2$  are or is 2 or more,  $B^1$  and  $B$  need not be identical, and  $R$  need not be identical.